

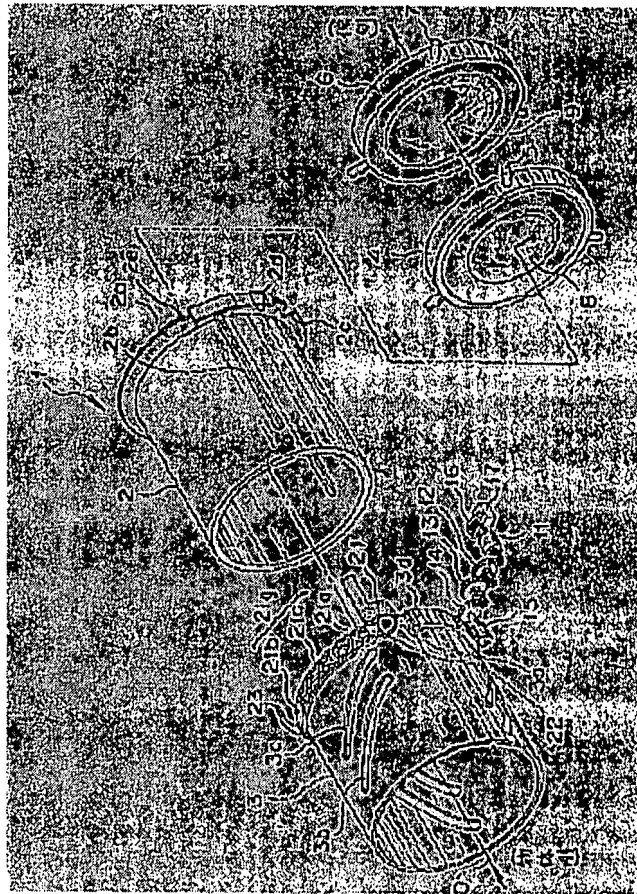
## ENCODER DEVICE

Patent number: JP2002243502  
Publication date: 2002-08-28  
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Classification:  
- International: G01D5/30; G02B7/08; G02B7/10; G01D5/26;  
G02B7/08; G02B7/10; (IPC1-7): G01D5/30; G02B7/08;  
G02B7/10  
- european:  
Application number: JP20010034322 20010209  
Priority number(s): JP20010034322 20010209

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### Abstract of JP2002243502

**PROBLEM TO BE SOLVED:** To provide an encoder device which is easy in assembling and advantageous in terms of cost.  
**SOLUTION:** A lens barrel 1 including this encoder device has a cam ring 3 rotatably fitting to a fixing frame 2, and an FPC 21 (flexible printed circuit circuit) for an encoder is disposed by straddling between the circumferential surface of the cam ring 3 and the inside peripheral part of an eaves part 2d of the fixing frame 2 in a U-shaped bent form. A pattern part 21g for the encoder comprising a PR(photo-reflector) 22, reflecting pattern parts 21a and 21b and a non-reflecting pattern part 21c is disposed on the FPC 21, and in the mounted form thereof, they are brought into a relatively movable state by facing to each other. When the cam ring 3 is rotated to each zooming position, a detection signal corresponding to the zooming rotation position is outputted from the PR 22, so that the zooming state is detected.



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